yikes!
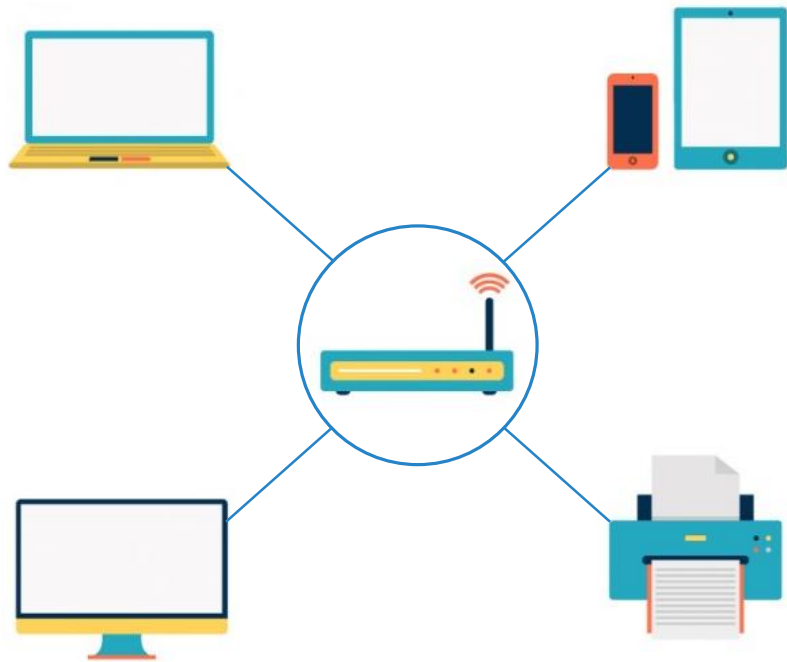
NETWORK SECURITY FOR HOME AND SMALL BUSINESS

Home/Small Business Network (2004)

- Flat Network

- Limited Number of Devices/Types

- Static Device Count

- Security Focused on Endpoint Protection

Home/Small Business Network (2019)

- Every Kind of Device Connected

- Transient Devices from Guests

- Still Flat

- Requires Network Defense
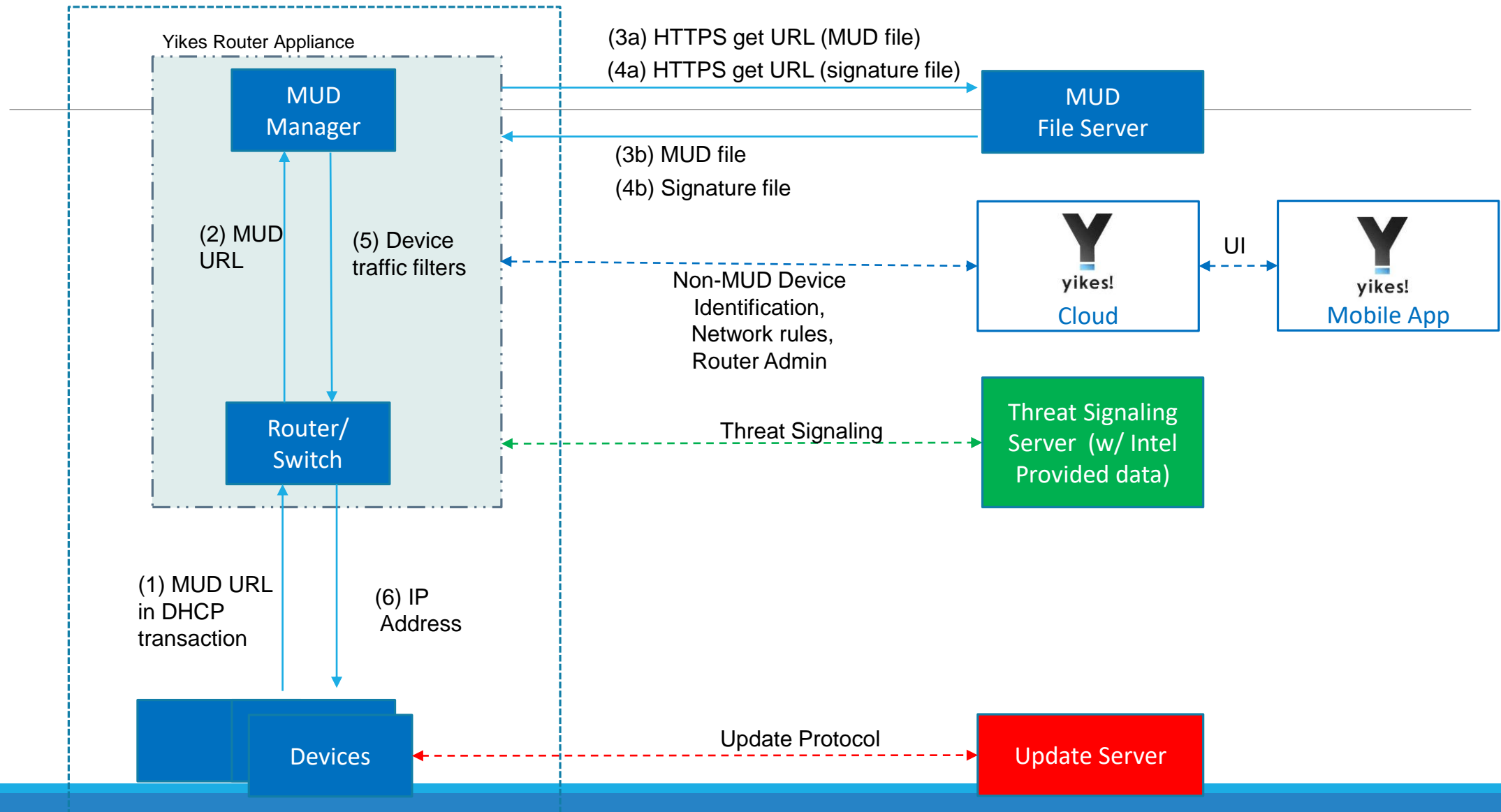
How *Yikes!* Keeps You Safe

Software Defined Networking

- Micro-Segmentation
  - Automated Device Identification
  - Device Functional Groupings
  - Group Aware Firewall Rules
    - Internet Controls (N/S)
    - Lateral Movement (E/W)
  - Anomalous Traffic Behavior Detection

- Integration with Threat Signaling

- Future Aware
  - Manufacturer Usage Descriptions (MUD)

- Easy UI & Device On-boarding

High Level Architecture – Yikes!

Home or Small Business Network

Yikes Router Appliance

MUD Manager

(3a) HTTPS get URL (MUD file)
(4a) HTTPS get URL (signature file)

MUD File Server

(3b) MUD file
(4b) Signature file

(2) MUD URL

(5) Device traffic filters

Non-MUD Device Identification, Network rules, Router Admin

yikes! Cloud

UI

yikes! Mobile App

Router/ Switch

Threat Signaling

Threat Signaling Server (w/ Intel Provided data)

(1) MUD URL in DHCP transaction

(6) IP Address

Devices

Update Protocol

Update Server

Yikes UI Overview – Device Onboarding

Onboarding:
- New devices are shown in the Alerts view.

- Yikes! Cloud auto-identifies and categorizes new devices.

- Device inventory organized by MUD, IoT secured, and attached network segment.
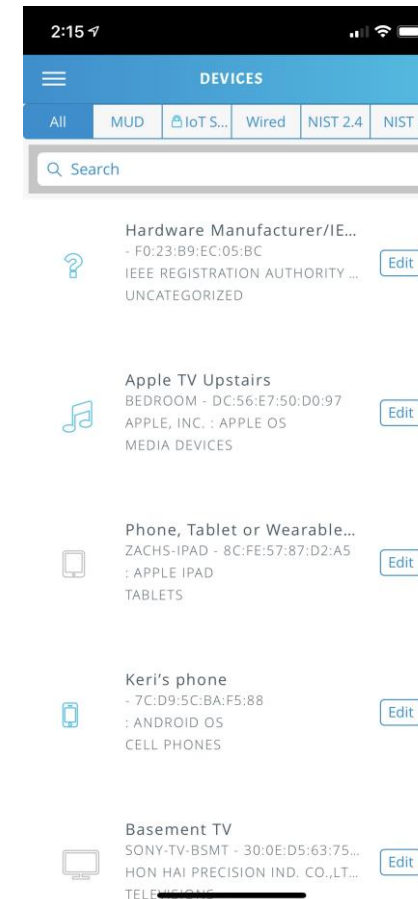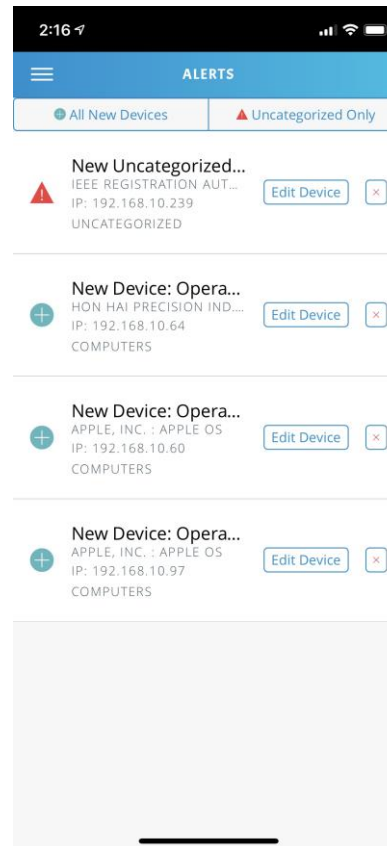
Yikes UI Overview – Categories & Rules

Categories and Rules:

- All devices are placed in a category.
- Rules inform the system to what categories are allowed to do.
- Users can adjust allowed interactions to match their needs.
- Devices can be placed in a "Guests" category for further segmentation.
- Unknown devices protected by the "Uncategorized" rule definition.
- New and returning devices automatically receive the protection of their assigned category.
- Category rules easily viewed and modified.